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In this study, nickel based woven meshes are tested as not only anode current collecting meshes but also anode flow fields instead of the conventional gas channels fabricated by machining. For th...

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By: Kamath, Ayodh Vasant. *Spaces & Flows: An International Journal of Urban & Extra Urban Studies*. 2016, Vol. 7 Issue 4, p57-67. 11 p., Database: SocINDEX with Full Text

This paper identifies the downcycling of reclaimed materials in building construction as a shortcoming of architectural design embedded in industrial processes. An alternative design processes ba...

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By: Mohd Rusli, Awatif, 01/01/2015
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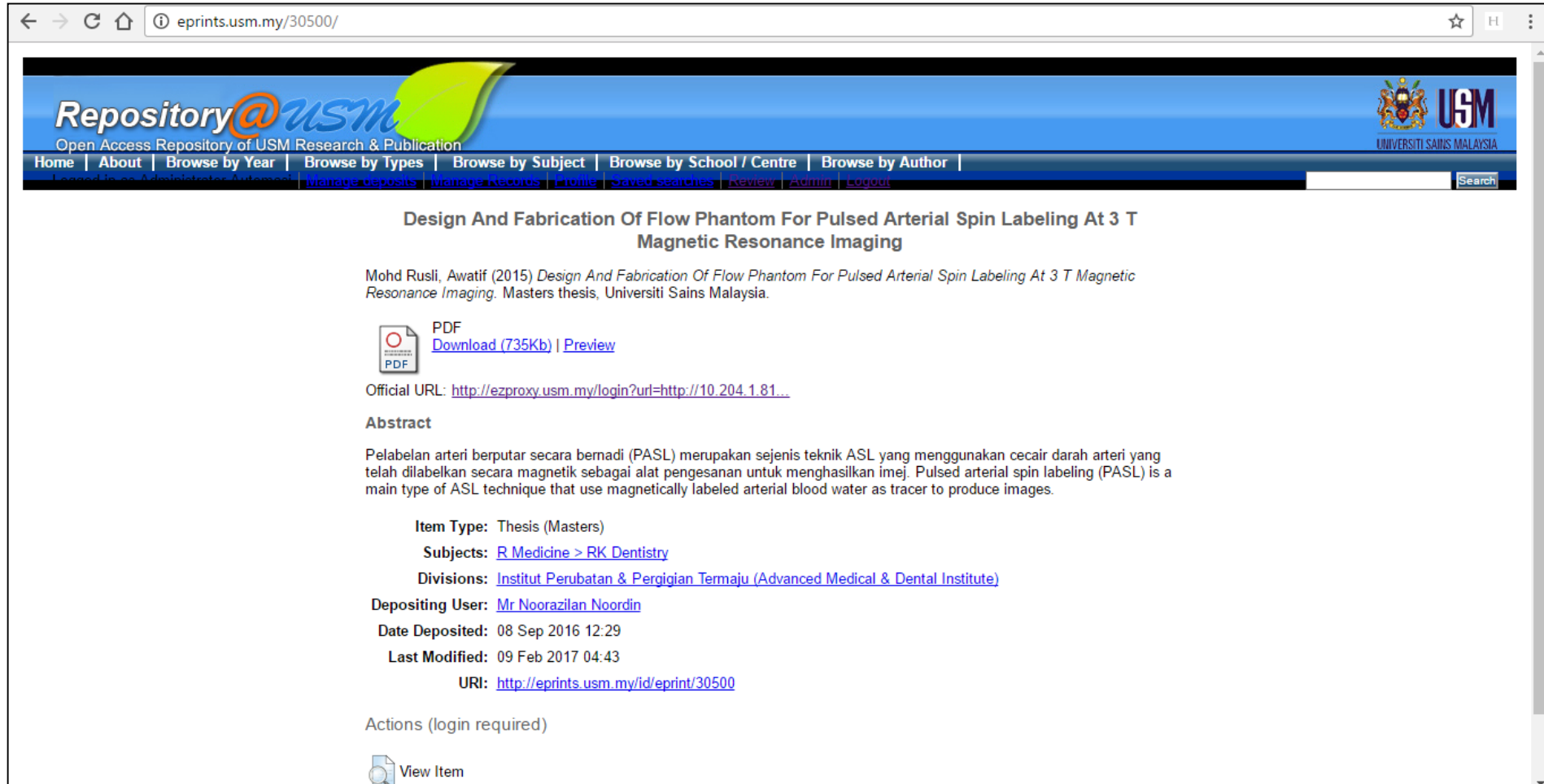
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Design And Fabrication Of Flow Phantom For Pulsed Arterial Spin Labeling At 3 T Magnetic Resonance Imaging

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Pelabelan arteri berputar secara bernadi (PASL) merupakan sejenis teknik ASL yang menggunakan cecair darah arteri yang telah dilabelkan secara magnetik sebagai alat pengesanan untuk menghasilkan imej. Pulsed arterial spin labeling (PASL) is a main type of ASL technique that use magnetically labeled arterial blood water as tracer to produce images.

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Keywords: ASL technique

Issue Date: 2015

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Abstract: Pulsed arterial spin labeling (PASL) is a main type of ASL technique that use magnetically labeled arterial blood water as tracer to produce images. The aim of this study was to design and fabricate a flow phantom that can be used as a component of PASL study to evaluate optimal Magnetic Resonance (MR) imaging parameters that can be used to obtain optimal MR image quality. In this study, a Perspex based flow phantom was designed with a set of tubes that mimicking carotid arteries in both adults and pediatric; and presented with 50% and 75% stenoses. A mixture of 60:40 distilled water and glycerol was used to mimic blood. The image acquisition of the phantom was performed by using 3 T MR. The phantom used 16-channel head and neck coil and scanned using PASL technique in combination with ASL multiphase and single shot echo planar imaging (EPI) sequence and sensitivity encoding (SENSE). The field of view (FOV) and slice thickness increase the signal-to-noise ratio (SNR) by increasing the voxel size. The MR images quality was evaluated by measuring the SNR. Study found that the highest SNR by average was obtained by using imaging parameters: FOV: 320 x 320 mm2 and slice thickness: 9 mm. In conclusion, optimal image quality depends upon best scanning parameter choices. Therefore, this study may be served as a guideline for the specification of ASL application in future.

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